# Arnold Engineering Development Cen

*Researching, Developing, and Testing America's Aerospace Technology*

# Reengineeri ng AEDC

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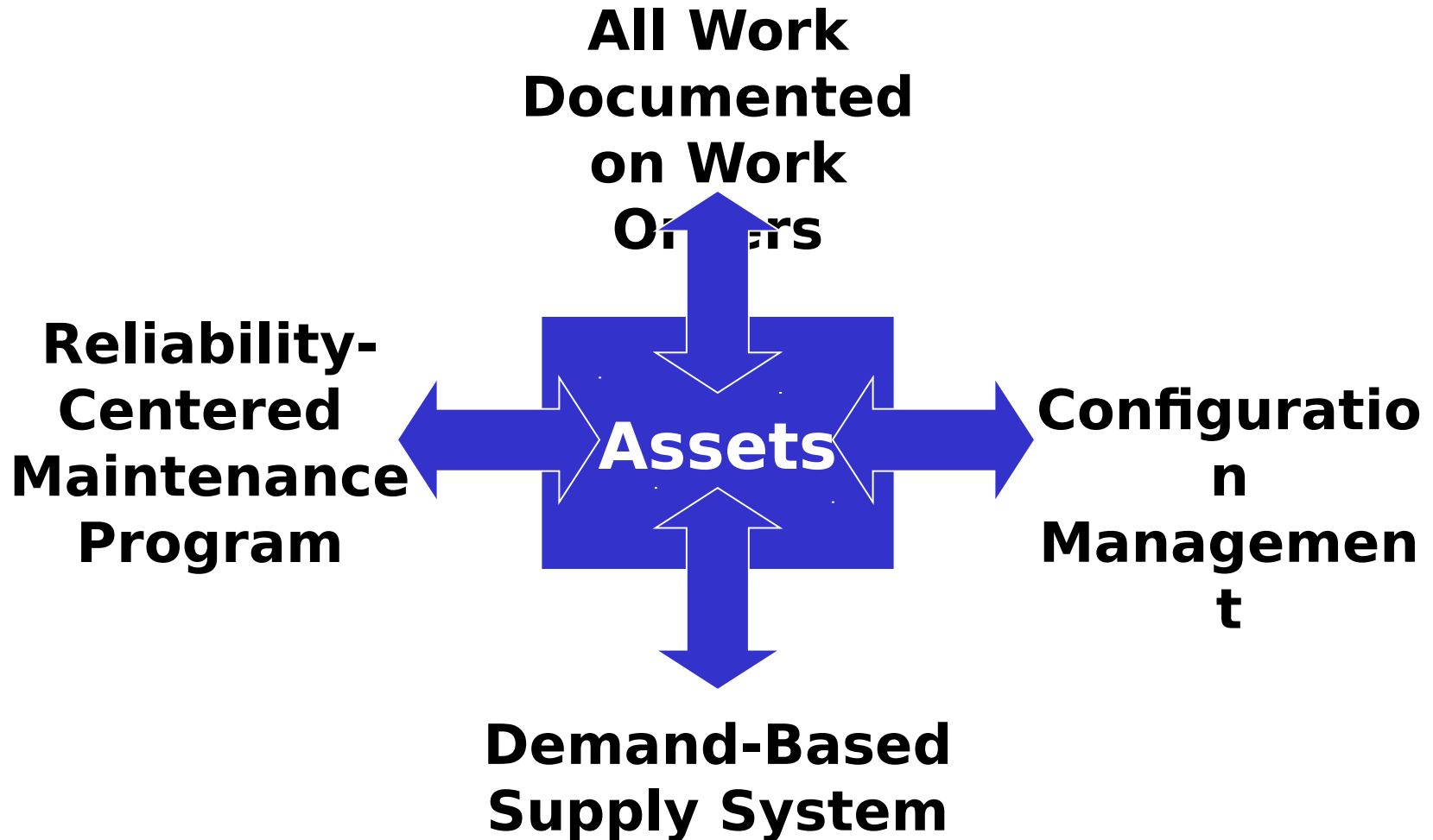
## Arnold AFB

# Reengineering Program Summary

- **Completed the 5-year $70M program in Sept 2001**
- **Implemented an Enterprise Solution**
  - **Integrated Logistics Support**
  - **Business Management**
  - **Human Resources**
- **Used Commercial-off-the-Shelf (COTS) software**
  - **Synergen, PeopleSoft, and Primavera**
- **Employed a disciplined Business Process Reengineering (BPR) approach**
  - **American Management Systems (AMS) facilitator/integrator**
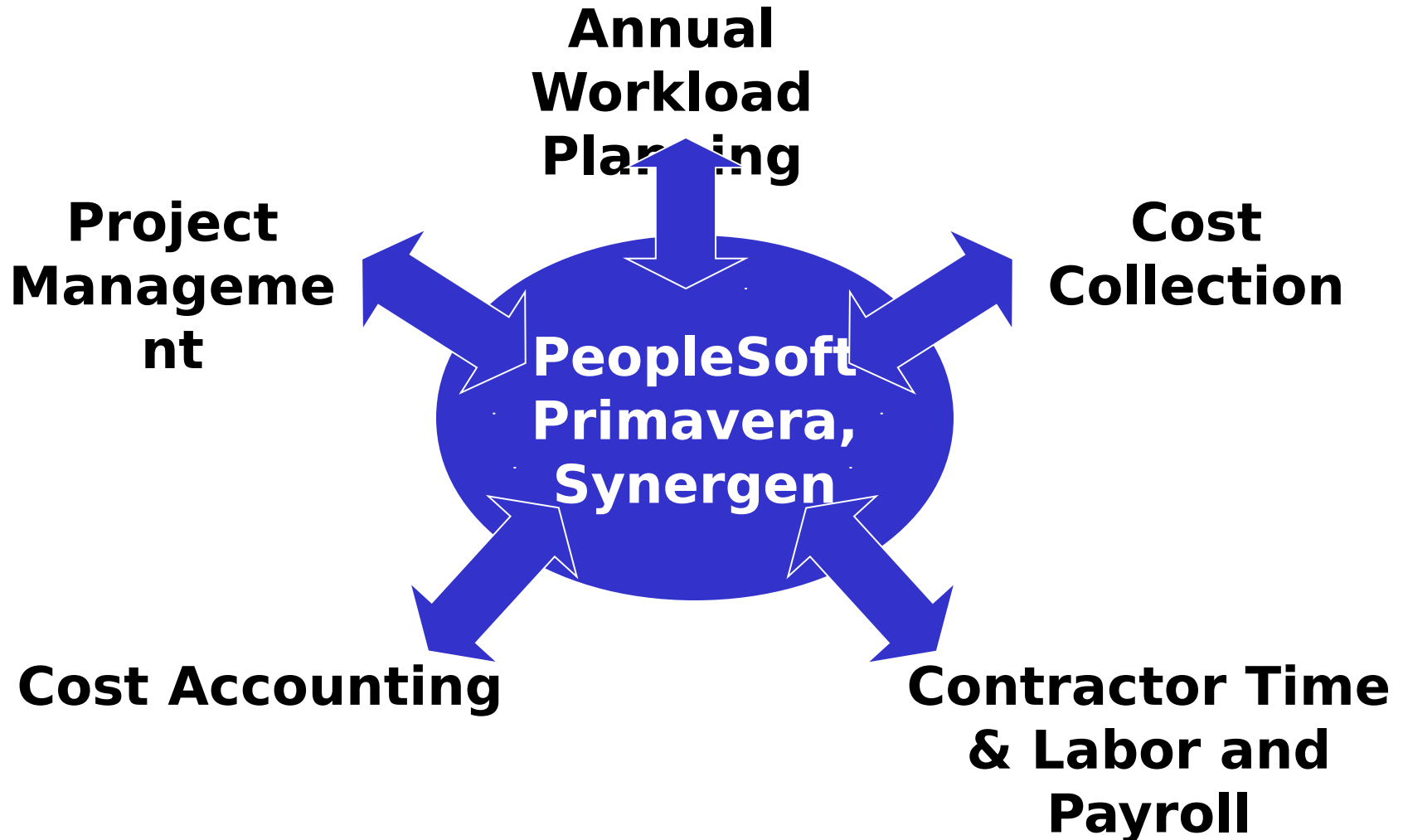
# ILS Vision

## Asset-Based Logistics

**All Work Documented on Work Orders**

**Reliability-Centered Maintenance Program**

**Assets**

**Configuration Management**

**Demand-Based Supply System**

# BMS Vision

## Single Source of Financial Information

**Annual Workload Planning**

**Project Management**

**Cost Collection**

**PeopleSoft Primavera, Synergen**

**Cost Accounting**

**Contractor Time & Labor and Payroll**

# Human Resources Vision

## On-Line Access to HR Data

**Benefits**

**Work Force Development**

**PeopleSoft HRMS**

**Health Monitoring**

**Personnel Actions**

# Reengineering Cost ($M)

| | FY96 | FY97 | FY98 | FY99 | FY00 | FY01 | Total |
|---|---|---|---|---|---|---|---|
| ACS | 0. | 1.4 | 2.6 | 3.8 | 2.6 | 2. | 13.4 |
| Mat'l | 5 | 6.8 | 2.3 | 3.8 | 3.7 | 5 | 18.5 |
| SvT | 0. | 1.1 | 1.5 | 1.4 | 0.9 | 1. | 5.9 |
| AMS | 0 | 3.8 | 5.0 | 7.1 | 6.3 | 9 | 26.7 |
| GFE | 0. | 3.7 | 0.6 | 0.6 | 0.5 | 0. | 5.7 |
| Total | 3 | 16. | 12. | 16. | 14. | 7 | 70.2 |
| | 0. | 8 | 0 | 7 | 0 | 4. | |
| | 0 | | | | | 5 | |
| | 0. | | | | | 0. | |
| | 0 | | | | | 3 | |
| | 0. | | | | | 9. | |

# Software Sustainment Costs

- **$4.7M COTS software sustainment costs in FY02**
  - **Major Synergen upgrade scheduled**

- **$3.3M legacy software sustainment costs in FY95**

# Lessons Learned

- **Secure senior management leadership and commitment**
  - **Establish a common vision at outset**
- **Focus reengineering efforts on specific areas/functions**
- **Establish a program office**
  - **Develop detailed requirements and prepare a business case**
  - **Ensure HQ functionals validate new approaches**
- **Use a structured/disciplined methodology**
  - **Third party integrators/facilitators may lack understanding of DoD requirements**
- **Use COTS as a tool to support new processes**
  - **Define end state requirements before buying SW**
- **Develop a lab for testing and training that mirrors the production environment**